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7590 02/23/2006			EXAMINER	
Robert A Skri		MIRZA, ADNAN M		
Wolf Greenfield & Sacks PC Federal Reserve Plaza			ART UNIT	PAPER NUMBER
600 Atlantic Avenue Boston, MA 02210			2145	<u> </u>
			DATE MAILED: 02/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/533,409	WANG ET AL.
Office Action Summary	Examiner	Art Unit
	Adnan M. Mirza	2145
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIO R 1.136(a). In no event, however, may a r i. riod will apply and will expire SIX (6) MON latute, cause the application to become AB	CATION. Poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) ⊠ Responsive to communication(s) filed on 0 2a) □ This action is FINAL . 2b) ⊠ 1 3) □ Since this application is in condition for alloclosed in accordance with the practice und	This action is non-final. wance except for formal matt	·
Disposition of Claims		
4)	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyar rection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. Itents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interviews	ummary (PTO-413)
 Notice of References Cited (PTO-592) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB, Paper No(s)/Mail Date 	Paper No(s)/Mail Date formal Patent Application (PTO-152)

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DETAILED ACTION

Double Patenting

1. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

2. Claims 1, 29,45,52 rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1, 7, 9, 16 of prior U.S. Patent No. U.S. 6,898,727. This is a double patenting rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Staheli et al (5,537,533) and in view of Miskowiec (5,915,095).

As per claim 1,29,45,52 Staheli disclosed a method, comprising acts of: detecting a decrease in performance of a first host computer that results from the first host computer continuing to function but a decrease performance level (col. 10, lines 10-21), wherein the first computer provides computational resources to perform a task (col. 5, lines 36-45); (Note for future: If the bit rate falls below a given threshold, the connection to the server can be considered to have failed Golszmidt 6195680, col. 9, lines 11-15).

However Staheli did not go in details to disclose automatically configuring a second host computer to provide additional computational resources for the first host computer in response to detecting the decrease in performance of the first host computer, so that the first and second host computers simultaneously provide computational resources to perform the task.

In the same field of endeavor Miskowiec disclosed an exemplary apparatus in accordance with the principles of the present invention concerns balancing a plurality of received processing requests among a plurality of servers. The processing requests are received from one or more network nodes. The apparatus includes a plurality of communication ports are in operative communication with at least a first server, a second server and a first network node. At least each of the first and the second servers are operative to run a common application (col. 2, lines 52-61). In another preferred exemplary embodiment, common subsets of the one or more measurable characteristic are compared with one another, and or /alternatively with one or more predetermined values, to identify one or more suitably arranged servers. It should be noted that comparative-type processing or analysis utilizing one or more measurable characteristic may

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suitably be used to allocate one or more servers to run the common application (col. 7, lines 38-47).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have incorporated the automatically configuring a second host computer to provide additional computational resources for the first host computer in response to the act of detecting. In another preferred exemplary embodiment, common subsets of the one or more measurable characteristic are compared with one another, and or /alternatively with one or more predetermined values, to identify one or more suitably arranged servers. It should be noted that comparative-type processing or analysis utilizing one or more measurable characteristic may suitably be used to allocate one or more servers to run the common application as taught by Miskowiec in the method of Staheli to substantially minimize a user's involvement in selecting a server to run a particular application with as prompt a processing time as is then available (col. 2, lines 27-33).

3. As per claim 2 Staheli-Miskowiec disclosed wherein the first host computer is coupled to at least one first storage device that is accessible to the first host computer and in which data of the first host computer is stored (Staheli, col. 9, lines 12-24), and wherein the act of automatically configuring the second host computer includes an act of (Miskowiec, col. 8, lines 52-63): replicating the data of the first host computer from the at least one first storage device to

at least one second storage device that is accessible to the second host computer (Staheli, col. 09, lines 56-65).

- 4. As per claim 3 Staheli-Miskowiec disclosed wherein the act of replicating the data is performed without the first host computer copying the data from the at least one first storage device (Staheli, col. 5, lines 36-45).
- 5. As per claim 4 Staheli-Miskowiec disclosed wherein the act of replicating the data is performed without the second host computer copying the data to the at least one second storage device (Staheli, col. 6, lines 24-34).
- 6. As per claim 5 Staheli-Miskowiec disclosed wherein the act of replicating the data is performed without the second host computer copying the data to the at least one second storage device (Staheli, col. 6, lines 36-44).
- As per claims 6,25,30,46 Staheli disclosed wherein the act of replicating the data includes an act of replicating all of the data that is used by the first host computer and stored on the at least one first storage device to the at least one second storage device (Staheli, col. 5, lines 36-45), and wherein the act of automatically configuring further includes acts of: modifying a portion of the replicated data that corresponds to configurable parameters of the first host computer; and bringing the secondary host computer on line using the replicated data and the modified portion of the replicated data (Staheli, col. 6, lines 24-45).

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- 8. As per claims 7,8,13,14,21,26,33,34,35,39,38,49,50,56 Staheli-Miskowiec disclosed wherein the act of modifying the portion of the replicated data includes an act of modifying the portion of the replicated data that corresponds to a network address of the first host computer to correspond to a different network address (Staheli, col. 8, lines 56-67), the method further comprising an act of: modifying a network director to redirect at least one communication addressed to the network address of the first host computer to the different network address (Staheli, col. 5, lines 63-67 & col. 6, lines 1-7).
- 9. As per claim 9 Staheli-Miskowiec disclosed wherein the act of automatically configuring the second host computer further includes an act of: shutting down the second host computer prior to the act of replicating (Miskowiec, col. 8, lines 52-63).
- 10. As per claims 10,48 Staheli-Miskowiec disclosed wherein the first host computer is not identical to the second host computer, and wherein the act of replicating the data includes an act of: replicating only a portion of the data that is used by the first host computer and stored on the at least one first storage device to the at least one second storage device (Staheli, col. 5, lines 36-53), the portion of the data corresponding to data of the first host computer that can be at least one of used and executed by the second host computer without modification (Staheli, col. 9, lines 55-65).

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- 11. As per claims 11,12,32,37,47,58 Staheli-Miskowiec disclosed wherein the act of replicating the data includes an act of replicating the data from the at least one first storage device that is located in a first storage system to the at least one second storage device that is located in a second storage system (Staheli, col. 9, lines 55-65).
- 12. As per claim 15 Staheli-Miskowiec disclosed wherein the act of automatically configuring further includes an act of: transforming at least a portion of the replicated data of the first host computer for use with the second host computer when the second host computer is not identical to the first host computer (Staheli, col. 5, lines 36-53).
- 13. As per claim 16 Staheli-Miskowiec disclosed wherein the act of automatically configuring further includes an act of: bringing the second host computer on line using the replicated data of the first host computer (Miskowiec, col. 8, lines 52-63).
- 14. As per claims 17,18,42,43 Staheli-Miskowiec disclosed further comprising acts of: detecting an increase in the performance of the first host computer subsequent to the act of automatically configuring; and shutting down the second host computer in response to the act of detecting the increase in the performance of the first host computer (Miskowiec, col. 8, lines 52-63).
- 15. As per claims 19,23,55,59 Staheli-Miskowiec disclosed wherein the first host computer is coupled to a first storage system that includes at least one first storage device that is accessible to

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the first host computer and in which data of the first host computer is stored (Staheli, col. 9, lines 12-24), wherein the second host computer is coupled to a second storage system that includes at least one second storage device that is accessible to the second host computer and in which data of the second host computer is stored, the second storage system mirroring the data of the second host computer that is stored on the at least one second storage device to at least one third storage device (Staheli, col. 9, lines 47-64), and wherein the act of automatically configuring the second host computer includes acts of: shutting down the second host computer; discontinuing the mirroring of the data of the second host computer; and replicating, subsequent to the act of discontinuing, the data of the first host computer from the at least one first storage device to the at least one second storage device (Miskowiec, col. 8, lines 52-63).

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- As per claims 20,25 Staheli-Miskowiec disclosed wherein the act of replicating the data includes an act of replicating all of the data that is used by the first host computer and stored on the at least one first storage device to the at least one second storage device (Staheli, col. 9, lines 12-24), and wherein the act of automatically configuring further includes acts of: modifying a portion of the replicated data that corresponds to configurable parameters of the first host computer; and bringing the secondary host computer on line using the replicated data and the modified portion of the replicated data (Miskowiec, col. 8, lines 52-63).
- 17. As per claims 22,31,36,44,53,54,57 Staheli-Miskowiec disclosed further comprising an act of: communicating the change in operation of the first host computer to a controller that is operatively coupled to a storage system and the first host computer; wherein the act of

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automatically configuring the second host computer is performed by the controller in response to the acts of detecting and communicating (Miskowiec, col. 8, lines 52-63).

- 18. As per claim 24 Staheli-Miskowiec disclosed further comprising an act of: mirroring data of the first host computer that is stored on at least one first storage device that is accessible to the first host computer to at least one second storage device that is accessible to the second host computer; wherein the act of automatically configuring includes an act of discontinuing the mirroring of the data to the at least one second storage device in response to the step of detecting (Staheli, col. 6, lines 24-45).
- 19. As per claims 27,28,51 Staheli-Miskowiec disclosed further comprising acts of: detecting a decrease in performance of a third host computer; and automatically configuring the second host computer to provide additional computational resources for the third host computer in response to the act of detecting (Miskowiec, col. 8, lines 52-63).
- 20. As per claims 40,61 Staheli-Miskowiec disclosed wherein the controller includes means for modifying a portion of the replicated data that corresponds to a network address of the first host computer to correspond to a different network address (Staheli, col. 5, lines 63-67 & col. 6, lines 1-7).

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21. As per claims 41,60 Staheli- Miskowiec disclosed wherein the controller further includes a transformation engine that transforms at least a portion of the replicated data for use by the second host computer (Staheli, col. 6, lines 68-67).

Response to Arguments

Applicant's arguments filed 05/09/2005 have been fully considered but they are not persuasive. Response to Applicant's argument is as follows.

22. Applicant argued that prior art did not disclose, "detecting a decrease in performance of a first host computer that results from the host computer continuing to function but at decreased performance level".

As to applicant's argument Staheli disclosed thus the bandwidth of the link between the DTUs which is required for effective performance of the present invention is substantially lower than the bandwidth than the bandwidth that would be required to remotely mirror an entire file server (col. 10, lines 10-13). One ordinary skill in the art of the invention knows that Staheli uses the bandwidth criteria to measure the performance or the failure rate hence it do the mirroring of the entire server to another file server that will take the place of the original server and that is interpreted as main server

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Conclusion

Any inquiry concerning this communication or earlier communication from the examiner should

be directed to Adnan Mirza whose telephone number is (571)-272-3885.

13. The examiner can normally be reached on Monday to Friday during normal business

hours. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jason Cardone can be reached on (571)-272-3933. The fax for this group is (703)-

746-7239. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for un published

applications is available through Private PAIR only. For more information about the PAIR

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system, contact the Electronic Business Center (EBC) at (866)-217-9197 (toll-free).

AM

Adnan Mirza

Examiner

JASON CARDONE

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SUPERVISORY PATENT EXAMINER